

IN THE CLAIMS

1. (Currently Amended) A method for receiving digital data, the method comprising:
receiving a plurality of RF carriers conforming to an RF transmission standard,
the RF transmission standard defining a time division timeframe dividing at least two
carriers of the plurality of carriers divided into a periodic series of timeslots for each
carrier, where each timeslot in the periodic series of timeslots is able to carry
independent data content, wherein a single data portion conforming to a data portion
that is to be modulated within one timeslot defined by the RF transmission standard is
divided into different sub-portions, and each respective sub-portion within the different
sub-portions is modulated onto a different respective carrier of the at least two carriers
during a portion of respective timeslots defined by the RF transmission standard~~each~~
~~modulated with different portions of a single data stream during at least one timeslot of~~
~~each carrier within the periodic series of timeslots;~~
demodulating, during the respective timeslots, the at least two carriers to detect
the different sub-portions of the single data portion~~stream~~; and
assembling the different sub-portions of the single data portion~~stream~~ to
reconstruct the single data portion~~stream~~.
2. (Cancelled)
3. (Currently Amended) The method according to claim 1, wherein the at least one
respective timeslot comprises at least two timeslots that are divided among at least two
carriers, wherein the at least two timeslots occur simultaneously.
4. (Currently Amended) The method according to claim 3,
wherein the at least two carriers further each comprise a respective service
timeslot that communicates communications service maintenance data, and
the method further comprising deactivating the receiver during at least a period
of time outside of the at least one timeslot and the service timeslot.
5. (Original) The method according to claim 1, further comprising adjusting a

number of timeslots within the at least one timeslot by one of adding at least one timeslot and de-allocating at least one timeslot.

6. (Original) The method according to claim 5, wherein the adjusting is performed in response to an event that changes a current data bandwidth requirement.

7. (Currently Amended) A method for transmitting digital data, the method comprising:

accepting a single data streamportion, wherein the single data portion conforms to a data portion that is to be modulated within one timeslot defined by an RF transmission standard, the RF transmission standard defining at least one timeslot for each RF carrier within a plurality of RF carriers;

dividing the single data stream into different sub-portions for modulation during respective timeslots defined by the RF transmission standard for each of the respective at least two carriers; and

modulating a plurality of RF carriers, each respective sub-portion within the different sub-portions onto a respective carrier of at least two carriers of the plurality of carriers divided into a periodic series of timeslots for each carrier, where each timeslot in the periodic series of timeslots is able to carry independent data content, the at least two carriers each modulated with the different portions during the at least one timeslot of each carrier within the periodic series of timeslots.

8. (Currently Amended) A wireless device, comprising:

a wireless receiver that receives a plurality of RF carriers conforming to an RF transmission standard, the RF transmission standard defining a time division timeframe dividing at least two carriers of the plurality of carriers divided into a periodic series of timeslots for each carrier, where each timeslot in the periodic series of timeslots is able to carry independent data content, wherein a single data portion conforming to a data portion that is to be modulated within one timeslot defined by the RF transmission standard is divided into different sub-portions, and each respective sub-portion within the different sub-portions is modulated onto a different respective carrier of the at least two carriers during a portion of respective timeslots defined by the RF transmission

~~standard each modulated with different portions of a single data stream during at least one timeslot of each carrier within the periodic series of timeslots;~~

a demodulator, communicatively coupled with the wireless receiver, for demodulating, during the respective timeslots, the at least two carriers to detect the different sub-portions of the single data portionstream; and

a demultiplexer, communicatively coupled with the demodulator, for assembling the different sub-portions of the single data portionstream to reconstruct the single data portionstream.

9. (Original) The wireless device according to claim 8, therein the wireless receiver further selectably receives the single data stream on a dedicated carrier, the dedicated carrier divided into a periodic plurality of dedicated timeslots, the single data stream being periodically modulated during at least one of the periodic plurality of dedicated timeslots, the dedicated timeslots being longer than the at least one timeslot.

10. (Currently Amended) The wireless device according to claim 8, wherein the at least one respective timeslot of each carrier within the periodic series of timeslots occur simultaneously.

11. (Currently Amended) The wireless device according to claim 10, wherein the at least two carriers further each comprising a respective service timeslot that communicates communications service maintenance data, and wherein at least one of the wireless receiver, the demodulator, and the demultiplexer, deactivate during at least a period of time outside of the at least one timeslot and the service timeslot.

12. (Original) The wireless device according to claim 8, wherein at least one of the wireless receiver, the demodulator, and the demultiplexer, further adjusts a number of timeslots within the at least one timeslot by at least one of adding at least one timeslot and de-allocating at least one timeslot.

13. (Original) The wireless device according to claim 12, wherein at least one of the wireless receiver, the demodulator, and the demultiplexer, adjusts the number of

timeslots in response to an event that changes a current data bandwidth requirement.

14. (Currently Amended) A computer program product ~~comprising~~ tangibly encoded with computer programming instructions for receiving digital data, the computer programming instructions comprising instructions for:

wirelessly receiving a plurality of RF carriers conforming to an RF transmission standard, the RF transmission standard defining a time division timeframe dividing at least two carriers of the plurality of carriers divided into a periodic series of timeslots for each carrier, where each timeslot in the periodic series of timeslots is able to carry independent data content, wherein a single data portion conforming to a data portion that is to be modulated within one timeslot defined by the RF transmission standard is divided into different sub-portions, and each respective sub-portion within the different sub-portions is modulated onto a respective carrier of the at least two carriers during a portion of respective timeslots defined by the RF transmission standard~~each modulated with different portions of a single data stream during at least one timeslot of each carrier within the periodic series of timeslots;~~

demodulating, during the respective timeslots, the at least two carriers to detect the different sub-portions of the single data portion~~stream~~; and

assembling the different sub-portions of the single data stream to reconstruct the single data portion~~stream~~; and

outputting the single data portion.

15. (Original) The computer program product according to claim 14, further comprising instructions for selectably receiving the single data stream on a dedicated carrier, the dedicated carrier divided into a periodic plurality of dedicated timeslots, the single data stream being periodically modulated during at least one of the periodic plurality of dedicated timeslots, the dedicated timeslots being longer than the at least one timeslot.

16. (Original) The computer program product according to claim 14, wherein the at least one timeslot comprises at least two timeslots that are divided among at least two carriers, wherein the at least two timeslots occur simultaneously.

17. (Currently Amended) The computer program product according to claim 16, wherein the at least two carriers further each comprising a respective service timeslot that communicates communications service maintenance data, and the computer program product further comprising instructions for deactivating the receiver during at least a period of time outside of the at least one timeslot and the service timeslot.

18. (Original) The computer program product according to claim 14, further comprising instructions for adjusting a number of timeslots within the at least one timeslot by one of adding at least one timeslot and de-allocating at least one timeslot.

19. (Original) The computer program product according to claim 18, wherein the instructions for adjusting are performed in response to an event that changes a current data bandwidth requirement.

20. (New) The method according to claim 1, wherein the respective timeslots defined for each of the respective at least two carriers occur simultaneously.

21. (New) The method according to claim 20, wherein all of the respective sub-portions are modulated onto the respective carriers during simultaneous portions of the respective timeslots.